1	Attorney Docket No. 83303
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3	HIGH STRAIN PIEZO-POLYMER
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5	ABSTRACT OF DISCLOSURE
6	The present invention is a new class of terpolymers for use
7	as high strain electrostrictive polymer films. More
8	particularly, the invention is a class of electrostrictive
9	terpolymers comprising vinylidene fluoride (VDF),
10	trifluoroethylene (TrFE) and at least one monomer having at
11	least one halogen atom side group. The monomer is preferably an
12	ethylene-based monomer and preferably selected to favor gauche-
13	type linkage along the polymer backbone. The halogen atom side
14	group is preferably large enough to move or cause adjacent
15	polymer chains to be farther apart from or away from each other
16	than in the absence of such side group, but not so large that it
17	would inhibit polymer crystallites from forming. The monomer is
18	preferably a chloro-monomer such as chlorofluoroethylene (CFE).
19	The chlorofluoroethylene (CFE) is preferably 1-chloro-2-
20	fluoroethylene or 1-chloro-1-fluoroethylene. The
21 -	chlorofluoroethylene (CFE) favors gauche-type linkage which
22	favors high electrostrictive strains